

Residential ESS (HV)



Discharge at -20°C , fool-proof design



Flexible scalability

5kWh modular design, scalable from 10kWh to 40kWh



Fool-proof design

Stack and play, wiring-less connection



Harsh environment

20°C ~ 50°C discharge




Safe

IP65, for outdoor application



Wide control

Supports WiFi and Bluetooth communication, cloud smart control, remote management and maintenance

| Model | NHS-1Y10K | NHS-1Y15K | NHS-1Y20K | NHS-1Y25K | NHS-1Y30K | NHS-1Y35K | NHS-1Y40K |
|------------------------------|---|-----------------|------------------|------------------|------------------|------------------|------------------|
| Picture |  | | | | | | |
| Cell type | LiFePO4 Pouch Cell | | | | | | |
| Battery module | HV5120-S1-N (5.12kWh, 102.4V, 45kg) | | | | | | |
| Number of Battery modules | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Nominal energy | 10.24 kWh | 15.36 kWh | 20.48 kWh | 25.6 kWh | 30.72 kWh | 35.84 kWh | 40.96 kWh |
| Usable energy (95% DOD) | 9.728 kWh | 14.592 kWh | 19.456 kWh | 24.32 kWh | 29.184 kWh | 34.048 kWh | 38.912 kWh |
| Max Charge Current | 25 A | 25 A | 25 A | 25 A | 25 A | 25 A | 25 A |
| Max Discharge Current | 40 A | 40 A | 40 A | 40 A | 40 A | 40 A | 40 A |
| Nominal voltage | 204.8 V | 307.2 V | 409.6 V | 512 V | 614.4 V | 716.8 V | 819.2 V |
| Operating voltage range | 182.4 - 230.4 V | 273.6 - 345.6 V | 364.8 - 460.8 V | 456 - 576 V | 547.2 - 691.2 V | 638.4 - 806.4 V | 729.6 - 921.6 V |
| Communication | RS485, CAN, WIFI, Bluetooth | | | | | | |
| Protection function | Charge overvoltage, discharge under-voltage, overcurrent, over-temperature, short circuit protection, insulation fault protection, etc. | | | | | | |
| Cycle life | 6000 times (+25°C) | | | | | | |
| Scalability | Module: Max. 8S | | | | | | |
| Protection rating | IP65 | | | | | | |
| Cooling type | Natural convection | | | | | | |
| Working temperature | Charging: [-10, +50]°C | | | | | | |
| | Discharging: [-20, +50]°C | | | | | | |
| Working environment humidity | ≤ 85% (RH) | | | | | | |
| Working altitude | ≤ 2000 m | | | | | | |
| Warranty | 10 Years | | | | | | |
| Operating Condition | Indoor or outdoor | | | | | | |
| Installation | Ground Installation | | | | | | |
| Certifications | IEC62619, CE, IEC62638, UKCA | | | | | | |
| Transportation | UN38.3 | | | | | | |
| Size W * H * D (mm) | 636 * 330 * 628 | 636 * 330 * 816 | 636 * 330 * 1004 | 636 * 330 * 1192 | 636 * 330 * 1380 | 636 * 330 * 1568 | 636 * 330 * 1756 |
| Weight | 117 kg | 165 kg | 213 kg | 261 kg | 309 kg | 357 kg | 405 kg |

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